

EPA Registration Jacket
100-1563 Volume 2

PROCESSING REQUEST

Reg # 100-1563

Decision # 507042

Description: new seed treatment product

Electronic Label & Letter
(see PPLS):

OR

Non Electronic
Label & Letter
(Scanning required):

☒ Dated: 4/12/2016

☐ Dated:

Only one label type should be selected

Other Materials Sent (see jacket):

☒ New CSF(s) Dated: 1/12/2015, 2/27/2015

☐ Other:

File this coversheet and attached materials in the jacket. It must be well organized and clipped together, NOT STAPLED. Then give the jacket with the coversheet and materials to staff in the Information Services Center (ISC) (Room S-4900). If a jacket is full or only available as an image, please file materials in a new jacket and bring it down to the (ISC). For further information please call 703-605-0716.

Reviewer: Jacquelyn Marchese

Division: RD

Phone: 703-347-0559

Date: 4/18/2016



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

EPA Reg. Number:

100-1563

Date of Issuance:

4/12/16

Term of Issuance:

Conditional

Name of Pesticide Product:

CruiserMaxx Vibrance Pulses

Name and Address of Registrant (include ZIP Code):

Pat McCain
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, NC 27419

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Venus Eagle, Product Manager 01
Invertebrate-Vertebrate Branch 3, Registration Division (7505P)

Date:

4/12/16

2. You are required to comply with the data requirements described in the DCI identified below:

- a. Thiamethoxam GDCI-060109-1309
- b. Fludioxonil GDCI-071503-1243
- c. Thiabendazole GDCI-060101-1453
- d. Mefenoxam GDCI-113502-940

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, "EPA Reg. No. 100-1563."

4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 01/12/2015
- Alternate CSF 1 dated 02/27/2015

If you have any questions, you may contact Jacquelyn Marchese at 703-347-0559 or via email at marchese.jacquelyn@epa.gov.

Enclosure

(Master label)

GROUP	4A	INSECTICIDE
GROUP	1 4 7 12	FUNGICIDES

CruiserMaxx® Vibrance® Pulses

Insecticide with Fungicides

A seed treatment product for protection against damage from listed insects and soil- and seed-borne diseases of dried shelled peas: field pea, chickpea, lentil, and pigeon pea.

Active Ingredients:

Thiamethoxam ¹	8.48%
Thiabendazole ²	4.24%
Sedaxane ³	1.41%
Mefenoxam ⁴	1.06%
Fludioxonil ⁵	0.71%
Other Ingredients:	84.10%
Total:	100.00%

¹CAS No. 153719-23-4

²CAS No. 148-79-8

³CAS No. 874967-67-6

⁴CAS No. 70630-17-0 and CAS No. 69516-34-3

⁵CAS No. 131341-86-1

CruiserMaxx Vibrance Pulses is a flowable concentrate containing 0.77 lb thiamethoxam, 0.39 lb thiabendazole, 0.13 lb sedaxane, 0.10 lb mefenoxam, and 0.06 lb fludioxonil per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

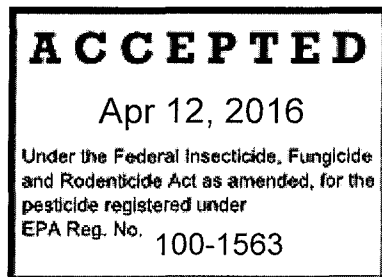
See additional precautionary statements and directions for use in booklet [on label].

EPA Reg. No. 100-

EPA Est. XXXXX

SCP

Net Contents



FIRST AID
Have the product container or label with you when calling a poison control center or doctor, or going for treatment
HOT LINE NUMBER For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves: barrier laminate, butyl rubber ≥14 mils, neoprene rubber ≥14 mils, nitrile rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton® ≥14 mils
- Shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This pesticide is toxic to wildlife, freshwater and estuarine/marine fish, and highly toxic to aquatic invertebrates. Do not contaminate water when disposing of equipment washwater or rinsate. Runoff may be hazardous to aquatic organisms in neighboring areas. Exposed treated seed may be hazardous to wildlife. If treated seed is spilled outdoors or in areas accessible to birds, promptly clean up or bury to prevent ingestion.

Pollinator Precautions

Thiamethoxam is highly toxic to bees exposed to direct treatment, and effects may be possible as a result of exposure to translocated residues in blooming crops.

Groundwater Advisory

Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Fludioxonil has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Thiamethoxam has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.**

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Use is permitted on-farm and in commercial seed treatment facilities. Do not use for at-plant applications (e.g. hopper box, planter box, etc.). This product is to be used in liquid or slurry treaters only.

Where mefenoxam/metalaxyl products used allow the same maximum poundage of active ingredient per acre per calendar year:

If more than one product containing mefenoxam/metalaxyl active ingredient is used on an acre during the same calendar year and the mefenoxam/metalaxyl products used allow the same maximum poundage of active ingredient per acre per calendar year, then the total poundage of all such mefenoxam/metalaxyl products used must not exceed any of the specified individual mefenoxam/metalaxyl product maximum poundage of active ingredient allowed per acre per calendar year.

Where mefenoxam/metalaxyl products used allow different maximum poundage of active ingredient per acre per calendar year:

If more than one product containing mefenoxam/metalaxyl active ingredient is used on an acre during the same calendar year and the mefenoxam/metalaxyl products used allow different maximum poundage of active ingredient per acre per calendar year, then the total poundage of all such mefenoxam/metalaxyl products used must not exceed the lowest specified individual mefenoxam/metalaxyl product maximum poundage of active ingredient allowed per acre per calendar year.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 48 hours. Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under

certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, Viton ≥14 mils
- Shoes Plus Socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR INSECT AND/OR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat a quantity of seed using equipment similar to that planned for treating the total seed lot. Prior to treatment, conduct germination tests on a portion of seed before committing the total seed lot to a selected seed treatment.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of Syngenta, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with CruiserMaxx Vibrance Pulses.

USE INFORMATION

CruiserMaxx Vibrance Pulses is a seed treatment product containing the active ingredients thiamethoxam (insecticide) and thiabendazole, sedaxane, mefenoxam and fludioxonil (fungicides). CruiserMaxx Vibrance Pulses protects against damage from listed insects and soil- and seed-borne diseases of dried shelled peas: field pea, chickpea, lentil, and pigeon pea.

Thiamethoxam is a systemic seed treatment insecticide belonging to the neonicotinoid class of chemistry. Thiamethoxam protects against listed chewing and sucking insects through contact and ingestion.

Thiabendazole fungicide is active against *Botrytis*, *Fusarium* and *Ascochyta* species.

Sedaxane fungicide is active against seed decay, seedling blight and damping-off caused by *Rhizoctonia* species.

Mefenoxam fungicide is active against *Pythium* species, *Phytophthora* species and systemic downy mildew.

Fludioxonil fungicide is active against *Fusarium* and *Rhizoctonia* species, and suppresses seed-borne *Sclerotinia* and *Phomopsis* species.

RESISTANCE MANAGEMENT

GROUP 4A INSECTICIDE

CruiserMaxx Vibrance Pulses contains thiamethoxam, a Group 4A insecticide. Thiamethoxam is a systemic insecticide belonging to the neonicotinoid class of chemistry which includes nicotinic acetylcholine receptor (nAChR) agonists.

Insect populations may contain individuals naturally resistant to Group 4A insecticides, and, if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, use sound resistance management strategies established for the crop and use area.

Base seed treatment on an integrated pest management program that includes field sanitation, historical information related to pesticide use, careful selection of pest-tolerant crop varieties, scouting, and management practices which optimize populations of natural enemies of insect pests such as within-field refugia (untreated areas). Sound management programs also consider cultural and biological control practices.

In order to maintain susceptibility to this class of chemistry:

- Use products at their full, specified doses.
- Use appropriate, well-maintained equipment. Use specified water volumes and apply at optimal temperatures in order to obtain optimal treatment.
- When rate ranges are given, use the higher rate within the listed rate range when insect pressure is expected to be high.
- Avoid using a single active ingredient or mode of action (same insecticide group) exclusively for season-long control of insect species with more than one generation per crop season.
- For insect species with successive or overlapping generations, use a treatment window approach. A treatment window is a period of time defined by the stage of crop development and the biology of the pests of concern. Within the treatment window, depending on the length of residual activity, single or consecutive applications may be made using seed, in-furrow, or foliar treatments unless otherwise excluded by product labels. Do not exceed the maximum amount of this insecticide's mode of action allowed per growing season.
- Following a treatment window of this insecticide's mode of action, rotate to a treatment window of effective products with a different mode of action before making additional applications of this insecticide.

If resistance to this product develops in your area, this product or other products with a similar mode of action may not provide adequate control. If poor performance cannot be attributed to improper application or weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and resistance is a reasonable cause, immediately consult your local company representative or agricultural advisor for the best alternative method of control for the crop and use area.

Syngenta encourages responsible product stewardship to ensure effective long term control of the insect pests on this label.

For additional information on Insect Resistance Management:

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local Cooperative Extension Service specialist, pest control advisor, or certified crop advisor
- Visit the Insecticide Resistance Action Committee (IRAC) on the web at: <http://www.irac-online.org>

GROUP	1	4	7	12	FUNGICIDES
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CruiserMaxx Vibrance Pulses contains thiabendazole, a group 1 fungicide; mefenoxam, a Group 4 fungicide; sedaxane, a Group 7 fungicide; and fludioxonil, a Group 12 fungicide. Thiabendazole belongs to the methyl-benzimidazole carbamate class of chemistry which disrupts β -tubulin assembly in mitosis. Mefenoxam belongs to the phenylamide class of chemistry which interferes with fungal RNA synthesis. Sedaxane is a succinate dehydrogenase inhibitor (SDHI) and belongs to the carboxamide class of chemistry which disrupts cellular respiration and energy generation. Fludioxonil belongs to the phenylpyrrole class of chemistry which interferes with osmotic signal transduction.

Fungal populations may contain individuals naturally resistant to Group 1, 4, 7, or 12 fungicides and if used repeatedly in the same fields, then resistant members may eventually dominate the population. Because resistance development cannot be predicted, the use of this product should conform to sound resistance management strategies such as alternation with fungicides with a different mode of action and/or tank mixes established for the crop and use area.

Use should be based on an IPM program that includes field sanitation, scouting, historical information related to pesticide use, and crop rotation. The IPM program should also consider cultural, biological, and other chemical control practices.

Syngenta encourages responsible product stewardship to ensure effective long term control of the fungal diseases on this label.

For additional information on Fungicide Resistance Management:

- Contact Syngenta representatives at 1-800-334-9481
- Contact your local extension specialist or certified crop advisor
- Visit the Fungicide Resistance Action Committee (FRAC) on the web at: <http://www.frac.info>

ROTATIONAL CROP RESTRICTIONS

In the event of crop failure or after harvest of a crop grown from seed treated with CruiserMaxx Vibrance Pulses, the field may be replanted according to the following schedule:

Immediate Plantback	Minimum 30-Day Plantback Interval
Cereal Grains: Barley, Corn, Oat, Rye, Triticale, and Wheat	Alfalfa Canola Cereal Grains: Buckwheat, Pearl Millet, Proso Millet, Rice, Sorghum, Teosinte, and Wild Rice
Peas, Dried Shelled: Chickpea (Garbanzo Bean), Field Pea, Lentil, and Pigeon Pea	Cotton Cucurbit Vegetables Crop Group 9 Fruiting Vegetables Crop Group 8 Head and Stem Brassica Crop Subgroup 5A Leafy Brassica Greens Crop Subgroup 5B Leafy Vegetables (Except Brassica Vegetables) Crop Group 4 Legume Vegetables (Succulent or Dried) Crop Group 6 Mint: Peppermint And Spearmint Oilseeds: Borage, Crambe, Flax Seed, Mustard Seed, Rapeseed, and Safflower Onion, Bulb Peanut Potato Root Vegetables Crop Subgroup 1A Strawberry Sunflower Tobacco Tuberous and Corm Vegetables (Except Potato) Crop Subgroup 1D
Soybean	

For any other crop, the minimum plant-back interval is 120 days from the date the CruiserMaxx Vibrance Pulses treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120-day interval; however, the crop may not be grazed or harvested for food or feed.

MIXING PROCEDURES

Important: Always re-circulate CruiserMaxx Vibrance Pulses thoroughly before using.

Follow the manufacturer's application instructions for the seed treatment equipment being used.

Apply CruiserMaxx Vibrance Pulses as a water-based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of insect or disease control. Thoroughly mix the specified amount of CruiserMaxx Vibrance Pulses into the required amount of water or liquid inoculant for the slurry treater and dilution rate to be used.

Certain crops require addition of inoculants when the seed is treated or planted. CruiserMaxx Vibrance Pulses is compatible with several liquid inoculant products. Consult the maker of the inoculant product and a Syngenta representative for directions before applying CruiserMaxx Vibrance Pulses with inoculants.

The total application volume must be sufficient to provide desired level of coverage. Dilution is typically done with water or liquid inoculants. The minimum slurry volume to achieve adequate coverage is 4.0 fl oz/100 lb seed. More diluent may be required to obtain complete coverage. For chickpea, a total slurry volume of 8 fl oz/100 lb of seed is recommended and more diluent may be required to obtain optimal coverage.

Continuous agitation or mixing of the slurry mixture is necessary to prevent settling out of the solution. Clean out any unused product from the treater after treating or maintain constant agitation if the left over slurry will be maintained overnight.

CruiserMaxx Vibrance Pulses contains an EPA-approved colorant that imparts an unnatural color to the seed as required by the Federal Seed Act.

Allow seed to dry before bagging.

Follow planter manufacturer's specifications for use of talc or other hopper box additives at planting. Seed must be completely dry before adding to planter.

SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiamethoxam insecticide and thiabendazole, sedaxane, fludioxonil and mefenoxam fungicides.
- Do not use for feed, food, or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing seeds treated with CruiserMaxx Vibrance Pulses:

- Ground Water Advisory:
Mefenoxam is known to leach through soil into groundwater under certain conditions as a result of label use. Fludioxonil and Thiamethoxam have properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.
- Pollinator Precautions:
Thiamethoxam is highly toxic to bees, and effects are possible as a result of exposure to translocated residues in blooming crops.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed, and (2) no measurable residues of pesticide remain in the ethanol by-products that are used in agronomic practice.
- Do not allow children, pets, or livestock to have access to treated seed.
- Store away from feeds and foodstuffs.
- Wear long-sleeved shirt, long pants and chemical resistant gloves when handling treated seed.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading.
- Treated seed must be planted into the soil at a depth greater than 1 inch.
- Dispose of all excess treated seed. Leftover treated seed may be doublesown around the headland or buried away from water sources in accordance with local requirements.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Dispose of seed packaging in accordance with local requirements.

- In the event of crop failure or after harvest of a crop grown from seed treated with CruiserMaxx Vibrance Pulses, the field may be replanted according to the following schedule:

Immediate Plantback	Minimum 30-Day Plantback Interval
Cereal Grains: Barley, Corn, Oat, Rye, Triticale, and Wheat	Alfalfa
Peas, Dried Shelled: Chickpea (Garbanzo Bean), Field Pea, Lentil, and Pigeon Pea	Canola
Soybean	Cereal Grains: Buckwheat, Pearl Millet, Proso Millet, Rice, Sorghum, Teosinte, and Wild Rice
	Cotton
	Cucurbit Vegetables
	Crop Group 9
	Fruiting Vegetables
	Crop Group 8
	Head and Stem Brassica
	Crop Subgroup 5A
	Leafy Brassica Greens
	Crop Subgroup 5B
	Leafy Vegetables (Except Brassica Vegetables)
	Crop Group 4
	Legume Vegetables (Succulent or Dried)
	Crop Group 6
	Mint: Peppermint And Spearmint
	Oilseeds: Borage, Crambe, Flax Seed, Mustard Seed, Rapeseed, and Safflower
	Onion, Bulb
	Peanut
	Potato
	Root Vegetables
	Crop Subgroup 1A
	Strawberry
	Sunflower
	Tobacco
	Tuberous and Corm Vegetables (Except Potato)
	Crop Subgroup 1D

- For any other crop, the minimum plant-back interval is 120 days from the date the CruiserMaxx Vibrance Pulses treated seed was planted. A cover crop other than the crops listed above that is planted for erosion control or soil improvement may be planted sooner than the 120-day interval; however, the crop may not be grazed or harvested for food or feed.
- Vines or hay grown from treated dry peas (chickpea, field pea, lentil and pigeon pea) may not be fed to livestock.
- All other forage may not be grazed until 30 days after planting.
- Do not use at a rate that will result in more than 0.0184 lb fludioxonil/A (8.34 g fludioxonil/A), 0.113 lb mefenoxam/A (51.3 g mefenoxam/A), and 0.11 lb thiamethoxam/A (50 g thiamethoxam/A) per calendar year as a seed treatment application.
- This seed has been treated with 2.5 g fludioxonil/100 kg seed, 3.75 g mefenoxam/100 kg seed, and 30 g thiamethoxam/100 kg seed.
- Do not apply products containing neonicotinoid insecticides to the soil or foliage of crops grown from seed treated with CruiserMaxx Vibrance Pulses.

CROP USE DIRECTIONS

When applied according to the **Cruisermaxx Vibrance Pulses Rate Table**, CruiserMaxx Vibrance Pulses provides early season protection against the insects and diseases listed in the tables below.

CruiserMaxx Vibrance Pulses Rate Table

Crop	Insects	Diseases	Use rate (fl oz per 100 lb seed)	Active Ingredient (grams per 100 kg seed)
DRIED SHELLED PEAS:	Aphids Bean leaf beetle Leafhoppers	Seed-borne Ascochyta blight and foot rot caused by <i>Ascochyta</i> spp.	5.0	Thiamethoxam: 30 Mefenoxam: 3.75
Field Pea (<i>Pisum sativum</i>)	Leaf miners Mexican bean beetle	Seed and soil-borne diseases caused by <i>Botrytis</i> spp., <i>Fusarium</i> spp., <i>Pythium</i> spp. and <i>Rhizoctonia</i> spp.		Fludioxonil: 2.5 Sedaxane: 5.0
Chickpea (garbanzo bean) (<i>Cicer arietinum</i>)	Pea leaf weevil Plant leaf hopper Seed corn maggot Thrips			Thiabendazole: 15
Lentil (<i>Lens esculenta</i>)	White grub Wireworms			
Pigeon Pea (<i>Cajanus cajan</i>)				

When to add additional Cruiser® 5FS, EPA Reg. No. 100-941:

If heavy insect pressure is expected, add up to 0.5 fl oz additional Cruiser 5FS as directed on the Cruiser 5FS label. When applied at 5.0 fl oz/100 lb of seed, CruiserMaxx Vibrance Pulses provides the equivalent of 0.78 fl oz of Cruiser 5FS.

When to add additional Apron XL®, EPA Reg. No. 100-799:

If target fields have a history of high Phytophthora pressure, add 0.16 - 0.48 fl oz Apron XL as directed on the Apron XL label. The additional Apron XL may reduce compatibility with some rhizobia inoculants. Consult with the maker of rhizobia inoculants before adding the additional Apron XL.

For systemic downy mildew protection in all Peas (*Pisum* spp.), add 1.12 fl oz Apron XL/100 lb of seed.

When applied at 5.0 fl oz/100 lb of seed, CruiserMaxx Vibrance Pulses provides the equivalent of 0.16 fl oz of Apron XL.

When to add additional Mertect® 340-F, EPA Reg. No. 100-889:

For heavy Ascochyta infections in field pea, pigeon pea and lentil add 0.5 fl oz additional Mertect 340-F for best protection. For heavy Ascochyta infections of chickpeas, add 1.5 fl oz Mertect 340-F as directed on the Mertect 340-F label. For best results against Ascochyta blight, plant chickpeas, peas or lentil seed treated with Mertect 340-F fungicide as late in the spring as possible. When applied at 5.0 fl oz/100 lb of seed, CruiserMaxx Vibrance Pulses provides the equivalent of 0.5 fl oz of Mertect 340-F.

STORED GRAIN PROTECTION

When treated according to the directions for post-planting protection against listed pests, CruiserMaxx Vibrance Pulses will also provide protection during post treatment storage of the seed listed in the **CruiserMaxx Vibrance Pulses Rate Table** against damage from Indian Meal Moth (*Plodia interpunctella*) and Red Flour Beetle (*Tribolium castaneum*).

If the seed to be treated has existing infestations of stored grain insects, fumigate the seed with a registered product approved for such use prior to treating with CruiserMaxx Vibrance Pulses and bagging.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment.

Pesticide Storage

Store in the original container and only in a cool, dry, secure place. For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Handling [less than or equal to 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by state and local authorities.

Container Handling [greater than 5 gallons – mini-bulk]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill or by incineration, or by other procedures approved by state and local authorities.

Container Handling [greater than 5 gallons - bulk]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person refilling. To clean container before final disposal, empty the

remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481

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